

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended): A detector calibration method, ~~wherein comprising:~~
calibrating the power and output signals of each photodetector device of a detector with
photodetector device arrays arranged in one dimension or two dimensions using a power meter
with traceability to the national standard of optical power, ~~is used to calibrate the power of each~~
~~photodetector device of a detector with photodetector device arrays arranged in one dimension or~~
~~two dimensions and~~
wherein ~~also to calibrate the output signals of the detector, so that it is possible to~~
~~measure~~ the spatial distribution of a light source's power and values of optical power can be
measured with traceability to the national standard directly from the output signals of the detector
pixels.

2. (Currently Amended): The detector calibration method of claim 1, wherein said
detector is calibrated by ~~measuring~~ calibrating a reference light source with said power meter,
~~and then by measuring the detector with the reference light source~~ with the detector, and then
calibrating the output signal of the detector based on the light power calibrated to the power
meter.

3. (Original): The detection calibration method of claim 1 or claim 2, wherein said
detector is a camera with a photodetector part comprising a plurality of pixels.

4. (Currently Amended): A ~~power measurement instrument~~ measuring method,
comprising the steps of:
calibrating a detector ~~which is equipped with a detector calibrated~~ according to the
detector calibration method described in claim 1 or claim 2, and ~~which measures~~

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measuring biochips, cells, fluorescent coating materials, or fluorescent dust.

5. (Currently Amended): A ~~power measurement instrument~~ measuring method,
comprising the steps of:

calibrating a detector, which is equipped with a means of calculating the number of molecules in a fluorescent object, ~~from a detector calibrated~~ according to the detector calibration method described in claim 1 or claim 2, and

calculating the power or the number of molecules of a fluorescent object using the output signals of the detector which detects fluorescent power from the fluorescent object, and the formula for the power generated from fluorescent dye, ~~and which can directly estimate the power or number of molecules or power and number of molecules of the fluorescent object.~~